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MICRAL® 1500 ALUMINUM HYDROXIDE (ATH)

DESCRIPTION

Micral 1500 is an economical smoke suppressor/flame retardant. Features and benefits include: excellent performance, handling, and processing characteristics, low soluble soda and free moisture content, and exceptional brightness.

Applications include wire and cable insulation, (can be processed at temperatures up to 200°C without porosity), injection molded polyolefins, coatings, adhesives, rubber goods, PVC, EPDM, EPR, XLPE, EVA, and compression molded Thermosets. Complete range of surface modifications are offered, such as silanes, sterates, wetting agents and processing aids. Technical service is available.

TYPICAL CHEMICAL ANALYSIS

Al(OH) ₃ , %	99.6
SiO ₂ , %	0.005
Fe ₂ O ₃ , %	0.007
Na ₂ O soluble, %	0.030
Loss of ignition, (1000°C), %	34.6
Free Moisture (TGA), (105°C), %	0.40

TYPICAL PHYSICAL PROPERTIES

Screen Analysis, % through 325 mesh	99.96
Median Particle Diameter (microns)	1.5
BET, Surface Area (m ² /gm)	10
Density (gm/cm ³)	2.42
TAPPI Brightness**	93.7
Hunter Shade Values	L 99
	a 0.3
	b 0.6
Moh Hardness	3.0
Conductivity, micromho	130
Oil Absorption (ml/100gm)*	33-35

*Oil absorption, ml, boiled linseed oil per 100 gm filler

**TAPPI Brightness measured with a Hunterlab Colorimeter

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